OHIO DEPARTMENT OF NATURAL RESOURCES DIVISION OF RECLAMATION

ATTACHMENT 20 (SEDIMENTATION POND/IMPOUNDMENT DATA SHEET)

App.	lica	nt's Name <u>Benno</u>	oc, Inc.		Pond	#_018		
Туре	e of	impoundment <u>Exca</u>	vated Pe	rmanent		ух		
1.	PONI	DRAINAGE AREA DATA	A:					
	a) b) c) d) e) f)	Drainage area 10 Disturbed area 10 Ave. land slope 1 Hydrologic soil ground Hydraulic length 1 Cover/condition of	acres 10 % oupC 450 ft.	bed area <u>N</u>	/A			
2.	DESIGN STORM CRITERIA:							
	a) Method:							
		1) Design method	(s) including	g computer p	rograms: <u>SED</u>	CAD 4.0		
		2) SCS curve numb	per <u>85</u>					
	b)	Rainfall Amount/Pea	ak Flow	Rainfall	in. Peak	flow, cfs.		
		1) 10 year, 24 ho 2) 25 year, 24 ho 3) 50 year, 6 ho (if permanent) 4) 100 year, 6 ho (if 20/20 size	our = our =	3.7		22		
3.	PONE	POND SIZE:						
	a)	a) Dimensions: N/A Pond is totally excavated.						
	1) 2) 3)	Dam width	ft.(MIN) 5)	Dam upstream	eam slope %ft ft	(MAX)		
	b)	Sediment storage volume 3.73 ac. ft. is provided below the 1098.0 foot elevation.						
	c)	Stage/Area Data:	E		Surface Area	Volume		
	1) 2) 3) 4) 5)	Streambed at upst Principal spillwa Exit Channel Cres	ream toe: y inlet: t:	ft. 1092.0 N/A N/A 1098.0 1101.0	ac. 0.50 N/A N/A 0.75 0.89	ac.ft. 0 N/A N/A 3.73 6.18		

4.	PRINCIPAL SPILLWAY: N/A a) Pipe length ft. b) Pipe diameter in. c) Pipe slope % d) Riser diameter in. e) Riser height ft. f) Type of pipe g) Number of anti-seep collars; spacing h) Does the design include a trash rack? i) Does the design include an anti-vortex device.	Yes, No.			
5.	EMERGENCY SPILLWAY/EXIT CHANNEL:				
	a) Base width 12 ft. b) Design flow depth 0.9 ft. Depth in c) Exit slope 3.8 % d) Exit velocity 3.4 fps e) Channel lining Grass Mixture f) Side slopes 2:1 g) Freeboard 2.1 ft. h) Entrance slope 50 % i) Length of level section 20 ft.	level section <u>0.9</u> ft.			
6.	The minimum static factor of safety for this in	mpoundment is1.5			
7.	Provide as an addendum to this attachment a detailed plan view or 2 cross sections of the impoundment.				
8.	COMMENTS:				
9.	Is this an MSHA structure?Yes, _X No. MSHA ID. number if one has been assigned	If "yes," provide the			
10.	If this is to be retained as a permanent impour to this attachment demonstrating compliance wit of the Administrative Code.				
11.	I hereby certify that this impoundment is designable requirements of rule 1501:13-9-04 of using current, prudent engineering practices.				
	Donal M ap/I	10-9-01			
	Signature	Date			
		P.E. SEAL			
		DONALD M. BRAFFORD E-29449 CONAL ENGINEERED			